UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

26710 7590 03/23/2009

QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE SUITE 2040 MII WALIKEE, WI 53202-4497 EXAMINER CHAWLA, JYOTI

PAPER NUMBER

ART UNIT 1794 DATE MAILED: 03/23/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/525,892
 03/15/2000
 Alfonso Navarro
 134421,98641
 9509

TITLE OF INVENTION: METHOD OF AERATING YEAST PRIOR TO PITCHING

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	06/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT AGRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of specifying a new corr	maintenance fees v espondence address	vill be and/o	mailed to the current r (b) indicating a sepa	correspond rate "FEE	ence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
26710	7590 03/23	/2009	Ha			=		
QUARLES & 1 411 E. WISCON SUITE 2040	ISIN AVENUE		I b Str ad tra	ereby certify that th	is Feet	e of Mailing or Trans s) Transmittal is being flicient postage for first ISSUE FEE address (1) 273-2885, on the d	deposited	with the United in an envelope being facsimile d below.
MILWAUKEE,	W1 53202-4497							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRM	MATION NO.
09/525,892	03/15/2000		Alfonso Navarro	ionso Navarro		134421.98641	Ģ)509
TITLE OF INVENTION	: METHOD OF AERAT	ING YEAST PRIOR TO	PITCHING					
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	D.	ATE DUE
nonprovisional	NO	\$1510	\$0	\$0 \$1510		06	5/23/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS	٦				
CHAWL	A, JYOTI	1794	426-062000	_				
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the					
Change of corresp	ondence address (or Cha	nge of Correspondence	(1) the names of up or agents OR, alterna	to 3 registered pater tively,	nt attorn	neys 1		
Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3					
Number is required.	2 of more recent) attach	ed. Use of a Customer	listed, no name will b	e printed.	по пап	K 15 3		
3. ASSIGNEE NAME A								
PLEASE NOTE: Unl recordation as set forti	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee pletion of this form is NO	data will appear on the T a substitute for filing a	patent. If an assign n assignment.	ee is i	dentified below, the d	ocument ha	s been filed for
(A) NAME OF ASSIG			(B) RESIDENCE: (CIT					
				D -				D.,
Please check the appropri	iate assignee category or	categories (will not be pr	inted on the patent):	Individual UC	orporat	ion or other private gro	sup entity	■ Government
4a. The following fee(s)	are submitted:	41	Payment of Fee(s): (Ple		ny pre	viously paid issue fee	shown abo	ve)
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted)			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
			overpayment, to Dep	osit Account Numb	er	(enclose a	n extra copy	of this form).
 Change in Entity State Applicant claim 	tus (from status indicate) s SMALL ENTITY stati		☐ b. Applicant is no lo	neer claimine SMA	LLEN	TITY status. See 37 Cl	R 1 27(e)(2)
NOTE: The Issue Fee and interest as shown by the								
interest as shown by the i	records of the United Sta	tes Patent and Trademark	Office.					
Authorized Signature				Date				
Typed or printed name			Registration No					
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ions for reducing this but firginia 22313-1450. DO 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offi COMPLETED FORMS	retain a benefit by stimated to take 12 ividual case. Any co cer, U.S. Patent and FO THIS ADDRESS	he pub minute ommen Trader S. SEN	lic which is to file (and s to complete, includin ts on the amount of ti mark Office, U.S. Depo D TO: Commissioner	I by the US g gathering ne you requ artment of O for Patents,	PTO to process) , preparing, and aire to complete Commerce, P.O. P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

s: COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 03/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/525,892	03/15/2000	Alfonso Navarro	134421.98641	9509	
26710	7590 03/23/2009		EXAM	IINER	
OUARLES & BRADY LLP			CHAWLA, JYOTI		
411 E. WISCONS	SIN AVENUE	ART UNIT	PAPER NUMBER		
SUITE 2040 MILWAUKEE V	VI 53202-4497		1794		

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
09/525,892	NAVARRO ET AL.
Examiner	Art Unit
IVOTI CHAMI A	1704

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to response dated 1/5/09.
- The allowed claim(s) is/are 4,17,19 and 21-24.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1.

 Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. ☐ Notice of Informal Patent Application (PTO-152)
- Interview Summary (PTO-413), Paper No./Mail Date ______.
- 7. ☐ Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other ____.

/Jennifer McNeil/ SPE 1794 03/16/2009 Application/Control Number: 09/525,892

Art Unit: 1794

REASONS FOR ALLOWANCE

Applicant's submission filed on January 5, 2009 has been entered as compliant. Claims 25 and 26 have been cancelled and claims 4, 17, 19, 21-24 are pending and allowed in the current application.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Methods of oxygenation of yeast slurry have been known in the art. Quain et al., of record provide a method of brewing beer in which they aerate yeast from previous fermentation. Quain teaches "oxygen (alone or as part of a gaseous mixture) is introduced into an aqueous suspension of yeast, the oxygen content of the suspension is monitored, and the rate at which oxygen is introduced is increased in such a manner as to maintain the concentration of oxygen in the suspension substantially constant. oxygenation continuing at least until such time as there is no longer any need to increase the rate of introduction of oxygen to maintain the same concentration of oxygen in the suspension" and also teaches maintain the concentration of oxygen in the suspension as substantially constant. In Quain, "brewers' yeast is treated with oxygen until the rate at which it rakes up oxygen reaches or at least closely approaches a maximum in the prevailing conditions." Applicant's response to Quain's liquor being brewers word for water has been found convincing and thus there is no disclosure or motivation to add an adjunct to the aerating yeast has been provided by Quain. Quain does not teach aeration of yeast in a wort free medium in the presence of liquid adjunct comprising cereal sugars and zinc, wherein the gas comprising oxygen is delivered above the maximum oxygen uptake rate of the yeast wherein the period of time is 8 hours up to about 21 hours as instantly claimed.

Application/Control Number: 09/525,892

Art Unit: 1794

Other close prior art Seebeck teaches of wine making and aerating yeast in grape juice in a continuous fermentation process. Lindberg teaches of addition of zinc however, none of references either alone or in combination provides specific suggestion or motivation to show a method of aeration of yeast slurry in a wort free medium with liquid adjunct comprising cereal sugars and zinc. The references also do not teach a process of enhancing the yeast fermentation of wort by oxygenation of yeast by a gas comprising oxygen, which is delivered above the maximum oxygen uptake rate of the yeast wherein the period of time is 8 hours up to about 21 hours as instantly claimed to oxygenate the yeast slurry in order to enhance the yeast fermentation of wort, as is instantly claimed. Thus, a method of enhancing wort fermentation by oxygenation of yeast slurry by the method recited in the instantly claimed invention was not known at the time of the invention and is free of the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JYOTI CHAWLA whose telephone number is (571)272-8212. The examiner can normally be reached on 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have guestions on access to the Private PAIR system, contact the Electronic Application/Control Number: 09/525,892 Page 4

Art Unit: 1794

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JC/ Examiner Art Unit 1794

/JENNIFER MCNEIL/ Supervisory Patent Examiner, Art Unit 1794